

TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- [3] Type Examination Certificate Number: **DEMKO 15 ATEX 1525X Rev. 9**
- [4] Product: **Interface Modules, Open Type Programmable Controllers – Series UR20 u-remote**
- [5] Manufacturer: **Weidmüller Interface GmbH & Co. KG**
- [6] Address: **Klingenbergstrasse 26, 32758 Detmold, Germany**
- [7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.
- The examination and test results are recorded in confidential report no. **DK/ULD/ExTR15.0014/09**.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018 EN IEC 60079-7: 2015 +A1:2018 EN IEC 60079-15: 2019**
- except in respect of those requirements listed at item 18 of the Schedule.
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.
- [12] The marking of the product shall include the following:

 **II 3 G Ex ec nC IIC T4 Gc** (model UR20-4RO-CO-255 only)

 **II 3 G Ex ec IIC T4 Gc** (all other models)

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2016-04-13

Re-issued: 2021-11-22

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com



[13]

[14]

Schedule TYPE EXAMINATION CERTIFICATE No. DEMKO 15 ATEX 1525X Rev. 9

[15]

Description of Product:

The Interface modules, Open Type Programmable Controllers – Series UR20 u-remote modules are intended to be used in combination with programmable controllers and intended to be used for communication and input / output purposes. The system consists of Bus Coupler Modules and Input / Output Modules with different functions.

The Input and Output Modules are consisting of a base module with connections to the communication bus and power sources, different electronic modules and a modular terminal block module.

Models: UR20-FBC-PN-IRT, UR20-FBC-EC, UR20-FBC-MOD-TCP, UR20-FBC-PB-DP, UR20-4DI-P, UR20-16DI-P, UR20-16DI-P-PLC-INT, UR20-4DO-P, UR20-4DO-P-2A, UR20-8DO-P, UR20-16DO-P, UR20-16DO-P-PLC-INT, UR20-4RO-CO-255, UR20-4AI-UI-16, UR20-8AI-I-PLC-INT, UR20-4AO-UI-16, UR20-4AO-UI-16-DIAG, UR20-4AI-UI-16-DIAG, UR20-4AI-RTD-DIAG, UR20-4AI-TC-DIAG, UR20-PF-I, UR20-PF-O, UR20-16AUX-GND-I, UR20-16AUX-I, UR20-16AUX-GND-O, UR20-16AUX-O, UR20-16AUX-FE, UR20-8DI-P-3W, UR20-ES, UR20-FBC-EIP, UR20-1CNT-100-1DO, UR20-2CNT-100, UR20-2DI-P-TS, UR20-2FCNT-100, UR20-2PWM-PN-0.5A, UR20-2PWM-PN-2A, UR20-4AI-UI-12, UR20-4AI-UI-16-DIAG-HD, UR20-4AI-UI-16-HD, UR20-4DI-P-TS, UR20-4DO-PN-2A, UR20-4RO-SSR-255, UR20-8DI-P-2W, UR20-8DI-P-3W-HD, UR20-PF-O-1DI-SIL, UR20-PF-O-2DI-DELAY-SIL, UR20-PF-O-2DI-SIL, UR20-1COM-232-485-422, UR20-1SSI, UR20-4DI-2W-230-AC, UR20-8AI-I-16-DIAG-HD, UR20-8AI-I-16-HD, UR20-16DO-N, UR20-4DI-N, UR20-8DO-P-2W-HD, UR20-16DI-N, UR20-1CNT-500, UR20-4DO-N, UR20-4DO-N-2A, UR20-8DI-N-3W, UR20-8DO-N, UR20-4DI-4DO-PN-FSPS, UR20-4DI-4DO-PN-FSOE, UR20-8DI-PN-FSPS, UR20-8DI-PN-FSOE, UR20-FBC-CAN, UR20-FBC-DN, UR20-4AO-UI-16-DIAG-HD, UR20-4AO-UI-16-HD, UR20-1COM-SAI-PRO, UR20-4AI-R-HS-16-DIAG, UR20-16DO-N-PLC-INT, UR20-16DI-N-PLC-INT, UR20-FBC-PL, UR20-FBC-MOD-TCP-V2, UR20-4AO-UI-16-M, UR20-4AO-UI-16-M-DIAG, UR20-4AI-UI-DIF-16-DIAG, UR20-4AI-UI-DIF-32-DIAG, UR20-4COM-IO-LINK, UR20-4AI-RTD-HP-DIAG, UR20-4DI-4DO-PN-FSPS-V2, UR20-4DI-4DO-PN-FSOE-V2, UR20-8DI-PN-FSPS-V2, UR20-8DI-PN-FSOE-V2, UR20-2AI-SG-24-DIAG, UR20-FBC-PN-IRT-V2, UR20-1SSI-BTL, UR20-8AI-RTD-DIAG-2W, UR20-8DIO-P-3W-DIAG, UR20-1SM-50W-6DI2DO-P, UR20-FBC-CC, UR20-FBC-PB-DP-V2, UR20-8DI-ISO-2W, UR20-4AI-I-HART-16-DIAG, UR20-4AI-UI-ISO-16-DIAG, UR20-1COM-CANOPEN, UR20-FBC-CC-TSN, UR20-2AO-UI-16-DIAG, UR20-2AO-UI-16, UR20-2AO-UI-ISO-16-DIAG, UR20-4DO-ISO-4A, UR20-2AI-UI-16, UR20-2AI-UI-16-DIAG, may be followed by additional characters.

Model UR20-4RO-CO-255 is protected by “ec nC” concept, all other models are “ec” concept.

Ratings

| Model | Type | Main Input | Auxiliary Input / Output |
|---|------------------------------|--|---|
| UR20-FBC-PN-IRT UR20-FBC-PN-IRT-V2 | Bus Coupler ProfiNet IRT | Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A | Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C |
| UR20-FBC-EC | Bus Coupler EtherCat | Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A | Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C |
| UR20-FBC-MOD-TCP | Bus Coupler ModBus TCP | Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A | Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C |



[13]

[14]

Schedule
TYPE EXAMINATION CERTIFICATE No.
DEMKO 15 ATEX 1525X Rev. 9

| Model | Type | Main Input | Auxiliary Input / Output |
|--|-------------------------------|--|--|
| UR20-FBC-PB-DP | Bus Coupler Profibus DP | Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A | Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C |
| UR20-FBC-EIP | Bus Coupler Ethernet IP | Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A | Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 24Vdc, 10A at 55°C, 8A at 60°C |
| UR20-FBC-CAN UR20-FBC-DN | Bus Coupler CANopen | Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A | Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load 10A at 60°C |
| UR20-FBC-PL | Bus Coupler Powerlink | Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A | Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 8A at 60°C, horizontal mounting, 6A at 55°C, vertical mounting |
| UR20-FBC-MOD-TCP-V2 | Bus Coupler Modbus/TC P | Input voltage I port: DC 24V Input current at I port at full load: ≤10A Input voltage O port: DC 24V Input current at O port at full load: ≤10A | Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 8A at 60°C, horizontal mounting, 6A at 55°C, vertical mounting |
| UR20-4DI-P UR20-2DI-P-TS UR20-4DI-P-TS UR20-4DI-N | 2 or 4 Digital Inputs | rated voltage: 24V DC from internal I bus | rated voltage: 24V DC sensor supply: 24Vdc, 2A resistive maximum per sensor, unfused |
| UR20-16DI-P UR20-16DI-N | 16 Digital Inputs | rated voltage: 24V DC from internal I bus | rated voltage: 24V DC |
| UR20-16DI-N-PLC-INT | 16 Digital Inputs | rated voltage: 24V DC from the 4 pole terminal block of the module | rated voltage: 24V DC |
| UR20-16DI-P-PLC-INT | 16 Digital Inputs | rated voltage: 24V DC from the 4 pole terminal block of the module | rated voltage: 24V DC sensor supply: 24V dc, 1A maximum per pole, unfused |



[13]

[14]

Schedule
TYPE EXAMINATION CERTIFICATE No.
DEMKO 15 ATEX 1525X Rev. 9

| Model | Type | Main Input | Auxiliary Input / Output |
|--|----------------------|--|---|
| UR20-4DO-P UR20-4DO-N | 4 Digital Outputs | rated voltage: 24V DC from internal O bus | rated voltage: 24V DC output current (DO): 0.5A resistive maximum per output sensor supply (auxiliary 24VDC): 2A maximum per sensor, unfused |
| UR20-4DO-P-2A UR20-4DO-N-2A | 4 Digital Outputs | rated voltage: 24V DC from internal O bus | rated voltage: 24V DC output current (DO): 2A resistive or tungsten maximum per output sensor supply (auxiliary 24VDC): 2A maximum per sensor, unfused Total current: 10A per module |
| UR20-8DO-P UR20-8DO-P-2W-HD UR20-8DO-N | 8 Digital Outputs | rated voltage: 24V DC from internal O bus | rated voltage: 24V DC output current: 24Vdc, 0.5A resistive or tungsten maximum per output |
| UR20-16DO-P UR20-16DO-N | 16 Digital Outputs | rated voltage: 24V DC from internal bus | rated voltage: 24V DC output current: 24Vdc, 0.5A resistive or tungsten maximum per output |
| UR20-16DO-N-PLC-INT | 16 Digital Outputs | rated voltage: 24V DC from the 4 pole terminal block of the module | 24V DC 0.5 A General Purpose (per output channel) |
| UR20-16DO-P-PLC-INT | 16 Digital Outputs | rated voltage: 24V DC from the 4 pole terminal block of the module | rated voltage: 24V DC output current (auxiliary supply): 24Vdc, 1A maximum per pole, unfused |
| UR20-4RO-CO-255 | 4 Relay Outputs | rated voltage: 24V DC from internal O bus | rated voltage: 250Vac rated current: 2.4A per channel at 60°C and 3A per channel at 55°C |
| UR20-4AI-UI-16 UR20-4AI-UI-12 UR20-4AI-UI-16-HD UR20-8AI-I-16-DIAG-HD UR20-8AI-I-16-HD | 4 or 8 Analog Inputs | rated voltage: 24V DC from internal I bus | type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA sensor supply: 24Vdc, 2A maximum per sensor, unfused, 0.5A for HD version, fused |
| UR20-8AI-I-PLC-INT | 8 Analog Inputs | rated voltage: 24V DC from the 4 pole terminal block of the module | type of input: analog 0..20mA or 4..20mA sensor supply: 24Vdc, 1A maximum, fused |
| UR20-4AO-UI-16 UR20-4AO-UI-16-DIAG UR20-4AO-UI-16-DIAG-HD UR20-4AO-UI-16-HD | 4 Analog Outputs | rated voltage: 24V DC from internal O bus | type of output: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA |
| UR20-2AO-UI-16 UR20-2AO-UI-16-DIAG | 2 Analog Outputs | rated voltage: 24V DC from internal O bus | type of output: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA |
| UR20-4AI-UI-16-DIAG UR20-4AI-UI-16-DIAG-HD | 4 Analog Inputs | rated voltage: 24V DC from internal I bus | type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA sensor supply: 24Vdc, 0.5A fused |
| UR20-2AI-UI-16 UR20-2AI-UI-16-DIAG | 2 Analog Inputs | rated voltage: 24V DC from internal I bus | type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA sensor supply: 2A maximum per sensor, unfused. |



[13]

[14]

Schedule
TYPE EXAMINATION CERTIFICATE No.
DEMKO 15 ATEX 1525X Rev. 9

| Model | Type | Main Input | Auxiliary Input / Output |
|---|---|---|--|
| UR20-4AI-RTD-DIAG UR20-4AI-RTD-HP-DIAG UR20-8AI-RTD-DIAG-2W | 4 or 8 Analog Inputs Resistive Temperature Detection | rated voltage: 24V DC from internal I bus | type of input: analog Pt100, Pt200, Pt500, Pt1000, Ni100, Ni120, Ni 200, Ni500, Ni1000, Cu10, 40 Ω, 80 Ω, 150 Ω, 300 Ω, 500 Ω, 1 kΩ, 2 kΩ, 4 kΩ |
| UR20-4AI-TC-DIAG | 4 Analog Inputs Thermocouple | rated voltage: 24V DC from internal I bus | type of input: analog TC type J, K, T, B, N, E, R, S, L, U, C, mV +/-15.625mV, +/-31.25mV, +/-62.5mV, +/-125mV +/-250mV, 500mV, +/-1000mV, +/-2000mV |
| UR20-PF-I | Power Feed Input | rated voltage: 24V DC from 4 pole terminal block | rated voltage: 24V DC rated current: 10A |
| UR20-PF-O | Power Feed Output | rated voltage: 24V DC from the 4 pole terminal block | rated voltage: 24V DC rated current: 10A |
| UR20-16AUX-GND-I UR20-16AUX-I UR20-ES | Potential Distribution Module for Input Current Path | rated voltage: 24V DC from internal I bus | 0V / GND rated current: 10A |
| UR20-16AUX-GND-O UR20-16AUX-O UR20-16AUX-FE | Potential Distribution Module for Output Current Path | rated voltage: 24V DC from internal O bus | 0V / GND rated current: 10A |
| UR20-8DI-P-3W UR20-8DI-P-2W UR20-8DI-P-3W-HD UR20-8DI-N-3W | 8 Digital Inputs | rated voltage: 24V DC from internal I bus | rated voltage: 24V DC sensor supply: 24Vdc, 2A maximum per sensor unfused, HD version FWT 1 to 4: 0.5A maximum total current, FWT 5 to 8: 0.5A maximum total current |
| UR20-2FCNT-100 UR20-1CNT100-1DO UR20-2CNT-100 | Counter with or without digital output | rated voltage: 24V DC from internal I bus | rated voltage: 24V DC output current 1CNT-1DO: 0.5A resistive maximum per output sensor supply: 24Vdc, 2A maximum per sensor unfused |
| UR20-2PWM-PN-0.5A UR20-2PWM-PN-2A | Pulse Width Controller with 0.5A or 2A output | rated voltage: 24V DC from internal O bus | rated voltage: 24V DC output current: 0.5(for ...PN-0.5A models) 2A (for ...PN-2A models) resistive maximum per output sensor supply: 24Vdc, 2A maximum per sensor unfused |
| UR20-4DO-PN-2A | 4 Digital Outputs | rated voltage: 24V DC from internal O bus | rated voltage: 24V DC output current: 2A resistive or tungsten maximum per output sensor supply: 24Vdc, 2A maximum per sensor, unfused total current per module: 10A maximum |



[13]

[14]

Schedule
TYPE EXAMINATION CERTIFICATE No.
DEMKO 15 ATEX 1525X Rev. 9

| Model | Type | Main Input | Auxiliary Input / Output |
|--|---|---|--|
| UR20-4RO-SSR-255 | 4 Solid State Relay Outputs | | rated voltage: 24V DC SSR rated voltage: 250Vac SSR rated current: 1A resistive maximum per channel, unfused |
| UR20-PF-O-1DI-SIL UR20-PF-O-2DI-SIL UR20-PF-O-2DI-DELAY-SIL | Power Feed Output | rated voltage: 24V DC from the 4 pole terminal block of the module | rated voltage: 24V DC rated current: OSSD: 8A resistive SSI: 0.5A resistive |
| UR20-1COM-232-485-422 UR20-1SSI-BTL | 1 Port Digital Interface | rated voltage: 24 V DC from internal I bus | Data interface signal: 232, 485 or 422 Load sensor supply: 0.4A (5V) or 0.5A (24V) |
| UR20-1SSI | 1 Port Synchron Serial Input Card | rated voltage: 24V DC from internal I bus | 1 RS422 Output 2 RS422 Input |
| UR20-1CNT-500 | 1 Port Counter Inout Card for Incremental Encoder | rated voltage: 24V DC from internal I bus | 3 RS422 Inputs |
| UR20-4DI-4DO-PN-FSPS UR20-4DI-4DO-PN-FSPS-V2 UR20-4DI-4DO-PN-FSOE UR20-4DI-4DO-PN-FSOE-V2 | 4 digital inputs and 4 digital outputs | rated voltage: 24V DC from internal bus | Load output rail: 6.4A Load input rail: 10A Load bus rail: 2.56A Input Signal P-Mode: 24V / N-Mode: 0V Load Sensor Supply: 0.8A, each channel Load Output signal: 0.5A, each channel |
| UR20-8DI-PN-FSPS UR20-8DI-PN-FSPS-V2 UR20-8DI-PN-FSOE UR20-8DI-PN-FSOE-V2 | 8 digital inputs | rated voltage: 24V DC from internal I bus | Load output rail: 6.4A Load input rail: 10A Load bus rail: 2.56A Input Signal P-Mode: 24V / N-Mode: 0V Load Sensor Supply: 0.8A, each channel Load Output signal: 0.5A, each channel |
| UR20-4DI-2W-230V-AC | 4 Digital Inputs | rated voltage: 24 V | Rated input voltage: 230V AC |
| UR20-1COM-SAI-PRO | 1 Port Communication Extension | rated voltage: 24V DC from internal I bus | Input signal: SAI-PRO-Module Load sensor supply: 3A |
| UR20-4AI-R-HS-16-DIAG | AI Module 4 analog inputs | Rated voltage: 24V DC from internal I bus | Type of input: analog 300Ohm..50kOhm Potentiometer supply (internal 10V DC): 50mA maximum per potentiometer, unfused |
| UR20-2AI-SG-24-DIAG | Strain Gauge module 2 Analog Inputs | 5Vdc system bus 24V DC from internal I bus | rated voltage: 24V DC |



[13]

[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1525X Rev. 9

| Model | Type | Main Input | Auxiliary Input / Output |
|--|--|---|--|
| UR20-4AO-UI-16-M UR20-4AO-UI-16-M- DIAG | AO Module 4 analog outputs | 5Vdc system bus 24V DC from internal O bus | Voltage: 0..5V, $\pm 5V$, 0..10V, $\pm 10V$, 1..5V, 2..10V Current: 0..20mA, 4..20mA |
| UR20-4AI-UI-DIF-16- DIAG UR20-4AI-UI-DIF-32- DIAG | AI Module 4 analog inputs | 5Vdc system bus 24V DC from internal I bus | Voltage: 0..5V, $\pm 5V$, 0..10V, $\pm 10V$, 1..5V, 2..10V Current: 0..20mA, 4..20mA |
| UR20-4COM-IO-LINK | Comm. Module | 5Vdc system bus 24V DC from internal I bus | 0,5 A per channel, total max. 2 A |
| UR20-8DIO-P-3W-DIAG | Digital I/O Module | 5Vdc system bus: 8mA 24Vdc output rail: 34mA + 4*0.3 A sensor supply | 8 output channels ≤ 0.5 A each |
| UR20-1SM-50W- 6DI2DO-P | Stepper Motor Module | 5Vdc system bus: 8mA 24Vdc input current path: 27 mA 24Vdc output current path: 10 mA | 2 output channels ≤ 0.5 A each 6 input channels max. 0.5 A each For 40°C ambient: Stepper motor supply 50 V, 2 A; For 60°C ambient: Stepper motor supply 30 V, 1 A |
| UR20-FBC-PB-DP-V2 | Bus Coupler Profibus DP | Input voltage I port: DC 24V +20%/- 15% Input current at I port at full load: $\leq 10A$ Input voltage O port: DC 24V +20%/-15% Input current at O port at full load: $\leq 10A$ | Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 10A at 60°C, horizontal mounting. |
| UR20-FBC-CC | Bus Coupler CC-Link | Input voltage I port: DC 24V +20%/- 15% Input current at I port at full load: $\leq 10A$ Input voltage O port: DC 24V +20%/-15% Input current at O port at full load: $\leq 10A$ | Output voltage system bus: 5Vdc +/-2% Output current at system bus at full load: 2.56A Output / input current at O / I Port at full load: 10A at 60°C, horizontal mounting. |
| UR20-8DI-ISO-2W | DI module 8 digital inputs | 5 V DC 8 mA from system bus | 24 Vdc and 48 Vdc input types |
| UR20-4AI-I-HART-16- DIAG | AI Module 4 analog inputs | Rated voltage: 24V DC from internal I bus | Type of input: analog HART 0..20mA or 4..20mA; Sensor supply (auxiliary 24V DC):0.5A maximum per sensor, fused |
| UR20-4AI-UI-ISO-16- DIAG | AI Module 4 analog inputs | Rated voltage: 24V DC from internal I bus | Type of input: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA |
| UR20-1COM- CANOPEN | 1 port Communicat ion module | Rated voltage: 24V DC from internal I bus | Data interface signal: CANopen bus |
| UR20-FBC-CC-TSN | CC-Link IE TSN Fieldbus Coupler | System supply: SELV 24Vdc +20%/-15% Supply for I/O rails: SELV 24Vdc +20%/-15% Rail current in/out: 10A max. (horizontal mounting, 60°C surrounding air temperature) | System bus: 5Vdc +/-2%, 2.56A full load |
| UR20-2AO-UI-ISO-16- DIAG | AO Module 2 isolated analog outputs | Rated voltage: 24V DC from internal O bus | type of output: analog +/-10V, +/-5V, 0..10V, 0..5V, 2..10V, 1..5V, 0..20mA or 4..20mA |



[13]

[14]

Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1525X Rev. 9

| Model | Type | Main Input | Auxiliary Input / Output |
|-----------------|---|---|--|
| UR20-4DO-ISO-4A | DO Module 4 isolated digital outputs | Rated voltage: 24V DC from internal O bus | Rated voltage: 48V DC / 24V AC (from external supply; not from O bus) output current: 4A DC / 2A AC maximum per output; Total current per module: 16A DC / 8A AC maximum |

The optical radiation output of the products with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1) to the scope of EN 60079-28:2015.

Temperature range:

The ambient temperature range is -20 °C to +60 °C unless otherwise specified in the table above.

Electrical data

Input = 24Vdc. Other ratings as per the above table.

Routine tests:

According to EN IEC 60079-7, clause 7.1 in combination with clause 6.1, a dielectric strength test has to be carried out at 100% of the products. Alternatively, routine tests may be performed on a statistical basis according to ISO 2859-1 with an acceptance quality limit (AQL) of 0,04. Routine test is to be carried out according to the applicable industry standard.

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

[17]

Special Conditions of Use:

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with EN 60079-0, accessible only by the use of a tool.
- The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
- When using relay modules (UR20-4RO-CO-255; UR20-4RO-SSR-255) in explosive atmosphere: Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

The trademark **Weidmüller**  will be used as the company identifier on the marking label.

